

CURRICULUM – VITAE

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<https://research.com/scientists-rankings/materials-science/sa>

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RESEARCH EXPERIENCE

2021-till date Professor at King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, KSA since.

17/05/2016-29/12/2021 Associate Professor at King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, KSA since.

26/01/2009-16/05/2016 Asst. Professor at King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, KSA since.

04/2006-01/2009 Postdoctoral Research Associate (CSIR, Govt. of India): National Physical Laboratory New Delhi

10/2004-03/2006 Postdoctoral Research Associate (CSIR, Govt. of India): Department of Chemistry, Delhi University (Central University), Delhi.

ACADEMIC EXPERIENCE

⇒ One year teaching experience of postgraduate teaching (MSc (Chem.)) at D/O Chemistry, Delhi University, Delhi.

⇒ Supervised eight (8) research projects of postgraduate students (MSc) at Jamia Millia Islamia (Central Univ.) New Delhi, INDIA.

⇒ Supervised two M.Tech. Students one year training (Tezpur University, Assam, India) at National Physical Laboratory, Delhi, India.

⇒ Trained M.Phil and PhD students for research on material synthesis/characterization at Delhi University, Delhi, INDIA

ACADEMIC QUALIFICATION

March/2004 **Doctor of Philosophy:** Department of Chemistry, Jamia Millia Islamia (A Central University), New Delhi. INDIA

- 1998 **Master of Science** (Physical Chemistry): MJP Rohelkhand Univ. Bareilly, U.P. INDIA
- 1996 **Bachelor of Science** (Chemistry, Zoology):MJP Rohelkhand Univ. Bareilly, U.P. INDIA

ACHIEVEMENTS/AWARDS:

- CSIR, Govt. of India Granted Postdoctoral Research Associate (2004)project No.01(1793)/02EMR-II.
- CSIR Govt. of India Granted Postdoctoral Research Associate (2006) project No. 9/45(630)06-EMR-I
- Research Project entitled"development of DNA biosensor for detection of Neisseria Gonorrhoeae in clinical samples" Project. no. 20/7(178)2008-E.IV for 1 year

Member of International/National Research Bodies

- **Life Member of American Chemical Society, USA** member no.2371348/personal ID No.228763
- **Life Member of American Nano Society, USA**
- Life Member of Material Research Society of India Membership No. LM B1016
- Life Member of Laser and Spectroscopy Society of India
- Life Member of Indian Society of Analytical Chemistry
- Member of Green Chemistry Institute, London, UK
- **Member of Who's Who in the World, USA**

Major Area of Research Interest:

- ❖ Application of nanomaterials for Biosensors
- ❖ Synthesis of controlled shaped, size luminescent lanthanides metal nanoparticles ($\text{Ln}_2\text{O}_3:\text{Ln}$; NaLnF_4 , LnPO_4 , LnF_3 , LnVO_4 and their derivatives $\text{NaLnF}_4:\text{Ln}$, $\text{CaMoO}_4:\text{Ln}$, $\text{LnVO}_4:\text{Ln}$ where $\text{Ln}=\text{Y}$, La , Gd , Eu , Tb , Yb , Er , Ho , Tm); Mesoporous and microporous silica coating, inert shell coating, Cytotoxicity evaluation and their use in various luminescent based applications such as thermometry, thermoluminescence, photothermal therapy, FRET sensing, dye-sensitized solar cells, bioimaging, photodynamic therapy and optical biosensor applications.
- ❖ Fabrication of controlled shaped nanostructured metal oxides (CeO_2 , ZnO , ZrO_2 , Fe_2O_3 , Fe_3O_4 , Mn_3O_4 , CuO , Co_3O_4 , TiO_2 and SnO_2) thin films and perovskites(LnMO_3 ; $\text{Ln}=\text{Y}$, La , Pr , Nd , Sm , Gd ; $\text{M}=\text{Al}$, Cr , Mn , Fe , Co , Ni , Cu) nanoparticles via chemical routes (Sol-gel, Micro-emulsion, Solvothermal, Sonochemical, Microwave, Co-precipitation, etc) for electrochemical biosensor applications.
- ❖ Synthesis of organometallic lanthanide metal complexes(metal-organic complexes).

Known Research techniques:

- X-ray diffraction; Energy-dispersive X-ray spectrometer; transmission electron microscope; Scanning electron microscopy; Atomic force microscopy; ultraviolet/Visible; Fourier transform infrared; Raman Spectroscopy; Photoluminescence; Cyclic voltammetry; Differential pulse voltammetry; Electrochemical Impedance spectroscopy; Differential light scattering (DLS) etc.

Research project completed & approved

- ❖ **Title:** Surface modified upconversion nano phosphors for dye-sensitized solar cells (DSSCs) (**Principle Investigator**) King Abdul Aziz City for Science and Technology, King Saud University, Riyadh Saudi Arabia.(2017)
Budget:600,000 SAR.
- ❖ **Title:** *Surface functionalized mesoporous luminescent rare-earth fluoride core-shell nanoparticles for photodynamic therapy application*, (**Principle Investigator**) King Abdul Aziz City for Science and Technology, King Saud University, Riyadh Saudi Arabia.(2013)
Budget: 1808000 SAR (2,89,28000 INR).
- ❖ **Title:** *Early cancer diagnosis and treatment via next generation multi-photon fluorescence microscopy*; (**Co-Investigator**) joined Research project with Max Plank Quantam optics Garching, Ludwing Maxmillian University, Munich, Germany and King saud University, Saudi Arabia
- ❖ **Title:** *Silicon nanoparticles in sol-gel based active media for optoelectronic applications*
Funding agency:King Abdul Aziz City for Science and Technology, King Saud University, Riyadh Saudi Arabia. (2010)
Budget: 1 Million SR.

Pub:211 (ISI Journals)+BookChap 4; Cit.(18October2024)>8532 h-index 54

Book Chapters

1. **Anees A. Ansari***, P. R. Solanki, A. Kaushik, B. D. Malhotra; Recent Advances in Nano-Structured Metal Oxides Based Electrochemical Biosensors for Clinical Diagnostics; Ed. U. Yogeshwaran, S. Kumar, S. Chen; *Nanostructured Materials for Electrochemical Biosensors*, Nova Publishing CO. USA 2009. **ISBN:** 978-1-60741-706-4. https://www.novapublishers.com/catalog/product_info.php?products_id=15228
2. **Anees A. Ansari***, M.N. Khan, Mansour Al Hoshan, A. S. Al Dwayyan, M. S. Alsalhi, Nanostructured materials: classification, properties, fabrication, characterization and their applications in biomedical sciences; Editors: Aiden E. Kestell and Gabriel T. DeLorey; Title: *Nanoparticles Properties, Classification, Characterization, and Fabrication*, Nova Science Publishers Inc. USA 2010. **ISBN:** 978-1-61668-344-3
3. **Anees A. Ansari***, M.Al Hoshan, A. S. Al Dwayyan, M. S. Alsalhi; Nanostructured metal oxides for enzyme based electrochemical biosensors; Ed. Pier Andrea Serra *Biosensors*; (<http://www.sciyo.com/books/show/title/biosensors>) page 23-46, ISBN 978-953-7619-99-2
4. **Anees A. Ansari*** Nanomaterials in the advancement of electrochemical DNA biosensors; Editors, Ashutosh Tiwari, Srikanth Pilla, *Recent Developments in Bio-Nanocomposites for Biomedical Applications* Nova Science Publishers, Inc., New York, USA. https://www.novapublishers.com/catalog/product_info.php?products_id=15228; **ISBN:** 978-1-61761-008-0

RESEARCH PAPERS PUBLISHED IN REFEREED JOURNAL

2024

- 216.P. Karki**, Rajasekhar Bhimireddi, Lokeswararao Dhavala, Anupama A V, Apparao M. Rao, Raja Karreddula, **Anees A. Ansari**; Structural, Optical, and Magnetic Properties of Brownmillerite KBiFe_2O_5 and $\text{KBiFe}_{1.95}\text{Ti}_{0.05}\text{O}_{5+}$ via Reactive Templated Method; ACS Omega 2024 <https://doi.org/10.1021/acsomega.4c07882>
- 215.** Laxman Singh, S. Kumar, S. K. Balakrishnan, A.Kumar, **Anees A Ansari**, A. Kumar, Abhishek Rai, A.K.Srivastava, A.K. Sonkar, Youngil Lee; Low temperature auto-flame fabricated $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ materials as spinel electrode for supercapacitor; Journal of Materials Science: Materials in Electronics 35(2024)1055.
- 214.** MA Majeed Khan, Manjeet Pawar, **Anees A Ansari**, Maqsood Ahamed, Sushil Kumar, Mohammed Shahabuddin; Boosted photocatalytic and electrochemical activity of hydrothermally synthesized WO_3 nanoparticles co-doped with transition elements (Mn, Co); Materials Science and Engineering: B 307(2024) 117541.
- 213.** Haijiang Gong, Qingtan Zeng, Shili Gai, Yaqian Du, Jing Zhang, Qingyu Wang, He Ding, Lichun Wu, **Anees Ahmad Ansari**, Piaoping Yang; Enzyme-based colorimetric signal amplification strategy in lateral flow immunoassay; Chinese Chemical Letters (2024) 110059.
- 212.** Tianzong Jiang, Shili Gai, Yanqi Yin, Zewei Sun, Bingchen Zhou, Yubo Zhao, He Ding, **Anees Ahmad Ansari**, Piaoping Yang; A light/thermal cascaded-driven equipment for machine recognition inspired by water lilies using as multifunctional soft actuator; Chemical Engineering Journal 495(2024) 153348.
- 211.** Haijiang Gong, Shili Gai, Yuelin Tao, Yaqian Du, Qingyu Wang, **Anees Ahmad Ansari**, He Ding, Qingqing Wang, Piaoping Yang; Colorimetric and Photothermal Dual-Modal Switching Lateral Flow Immunoassay Based on a Forced Dispersion Prussian Blue Nanocomposite for the Sensitive Detection of Prostate; *Anal. Chem.* 96(2024)8665, <https://doi.org/10.1021/acs.analchem.4c00862>.
- 210.** **Anees A Ansari**, Ruichan Lv, Shili Gai, A.K Parchur, P.R. Solanki, Z.A. Ansari, M. Dhayal, Piaoping Yang, M.K. Nazeeruddin, M. M. Tavakoli; ZnO nanostructures–Future frontiers in photocatalysis, solar cells, sensing, supercapacitor, fingerprint technologies, toxicity, and clinical diagnostics; Coordination Chemistry Reviews 515(2024), 215942.
- 209.** Bixiao Li, **Anees A Ansari**, A.K. Parchur, Ruichan Lv; Exploring the influence of polymeric and non-polymeric materials in synthesis and functionalization of luminescent lanthanide nanomaterials; ; Coordination Chemistry Reviews 514(2024), 215922.
- 208.** A.K. Gond, A. Kumar , **Anees A. Ansari**, S. Kumar, S. Kumar, A.N. Gupta, A. Kumar, Y. Lee, K. Mandal, H. Shekher, Laxman Singh; Microstructure, dielectric and ferroelectric properties of $\text{CaCu}_{3-x}\text{Zn}_x\text{Ti}_{4-x}\text{Ce}_x\text{O}_{12}$ ceramics prepared via semi-wet route; Processing and Application of Ceramics 18 [1] (2024) 117–122.
- 207.** Bixiao Li, Danyang Xu, Yitong Chen, Wenjing Li, Hanyu Liu, **Anees A Ansari**, Ruichan Lv; Polyethylenimine-Coated Pt–Mn Nanostructures for Synergistic Photodynamic/Photothermal/Chemodynamic Tumor Therapy, *ACS Appl. Nano Mater.* 7(2024)9428-9440.
- 206.** MA Majeed Khan, K. Punia, **Anees A Ansari**, Maqsood Ahamed, Sushil Kumar Enhancement in photocatalytic and electrochemical performance of hydrothermally synthesized $\beta\text{-Bi}_2\text{O}_3$ via Ni incorporation; Materials Chemistry and Physics 318(2024) 129275.

205. **Anees A Ansari**, Abdul K Parchur, Yang Li, Tao Jia, Ruichan Lv, Yanxing Wang, Guanying Chen; Cytotoxicity and genotoxicity evaluation of chemically synthesized and functionalized upconversion nanoparticles; *Coordination Chemistry Reviews* 504(2024), 215672
204. MA Majeed Khan, Saruchi Rani, **Anees A Ansari**, Maqsood Ahamed, Jahangeer Ahmed, Sushil Kumar, Abul Hassan S Rana; Anchoring Ceria Nanoparticles on Reduced Graphene Oxide and Their Enhanced Photocatalytic and Electrochemical Activity for Environmental Remediation; *Journal of Electronic Materials* 53(2024)930-944.
203. G.V.V.B. Rao, P Sobhanachalam, V.D. Sani, B. Avula, N.G. Babu, K.R. Kandula, C. Goutham, A. Ashok, **Anees A Ansari**, T.S. Rao, S Gangadhara, A Chittibabu; Comprehensive Structural Analysis Identifies the Relationships Between the Electrical Characteristics of Environmentally Friendly NBTMn-BAl-NaNb Ceramics; *ECS Journal of Solid State Science and Technology* *ECS J. Solid State Sci. Technol.* **13** (2024) 013005.
202. MA Majeed Khan, P. Choudhary, **Anees A Ansari**, Maqsood Ahamed, S.Kumar, M. Shahabuddin, Abu.H.S. Rana; Facile production of Ag-Co₃O₄/rGO nanocomposite and its enhanced photocatalytic and electrochemical activities for practical applications; *Diamond and Related Materials* 141(2024) 110675.
201. **Anees A Ansari**, MA Majeed Khan; LnPO₄: Eu nanoparticles: role of host lattices on physiochemical and luminescent properties; *Journal of King Saud University-Science* 36(2024) 103042.
200. **Anees A Ansari**, MA Majeed Khan, S. Ameen; Pr³⁺-doped YF₃, LaF₃, and GdF₃ nanoparticles: comparative crystallographic, Raman, optical, and photoluminescence properties; *Journal of the Australian Ceramic Society* 60(2023)153-162.

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199. N. C. R. Babu, P. V. Lakshmi, G. Ravi, N. Narasimha Rao, **Anees A. Ansari**, N. R. Ram, G. Govindu, A. Kumar Paliki, K. R. Kandula, Rajasekhar Bhimireddi, Colossal negative electrocaloric effects in anti-ferroelectric PLZST bulk ferroelectrics for solid-state refrigeration, *J Mater Sci: Mater Electron* (2023) 34:2134.
198. Rajasekhar Bhimireddi, L. Dhavala, T. Shet, S. P. Prashanth Sadhu, K. Raja Kandula, **Anees A. Ansari**, J. Kumar Padarti; Effect of ZnSnO₃ on dielectric and ferroelectric properties of Sr₂Bi₄Ti₅O₁₈ ceramics; *J. American Ceramic Society* 107(2024)984-994.
197. Wang, Zhan; Zhao, Sheng; Wang, Yanxing; Wang, Fu; **Anees A. Ansari**, Lv, Ruichan; An mechanoluminescent material ZnS:Mn,Li with enhanced brightness for teeth occlusal visualization, *Analytical and Bioanalytical Chemistry* 46(2024)3975-84
196. Laxman Singh, Azad Kumar, Arpit K. Pathak, Sumit Kumar, **Anees A. Ansari**, R. N. Rai, Le Van Quyet, Soo Y. Kim; Recent Progress in Nanocomposite-oriented Triboelectric and Piezoelectric Energy Generators: An Overview; *Nano-Structures & Nano-Objects* 36(2023)101046
195. Sunil Kumar; R.N. Rai, Darshan Singh, **Anees A Ansari**; Youngil Lee, Laxman Singh; Future perspectives on QDs embedded nano-fibrous materials as high capacity sustainable anode for Na-ion batteries technology, *MRS Energy & Sustainability* 10(2023)238-246.

194. M. A. Majeed Khan, **Anees A. Ansari**, Parul Choudhary, Jahangeer Ahmed, Sushil Kumar, Reduced graphene oxide supported Ag-loaded Brookite TiO₂ nanowires: Enhanced photocatalytic degradation performance and electrochemical energy storage applications; *Diamond & Related Materials* 139(2023)110397.
193. **Anees A Ansari**, M. A. Majeed Khan, Sadia Ameen, Ln₂O₃:Eu nanoparticles: host lattices and their impact on photoluminescence, Raman, optical, and crystal properties", has been accepted for publication in *Journal of Nanoparticle Research* 25(2023)193.
192. M. Duraisamy, M. Elanchezian, M. Eswaran, S. Ganesan, **Anees A Ansari**, Govindaraj Rajamanickam, Siew Ling Lee, Pei-Chien Tsai, Yi-Hsun Chen, Vinoth Kumar Ponnusamy; Novel ruthenium-doped vanadium carbide/polymeric nanohybrid sensor for acetaminophen drug detection in human blood; *International Journal of Biological Macromolecules* 244(2023) 125329.
191. S.A. Ansari, N. Parveen, G.M. Alsulaim, **Anees A Ansari**, S.A Alsharif, K.M Alnahdi, H.A. Alali, VRM Reddy; Emerging NiO-rGO Nanohybrids for Antibiotic Pollutant Degradation Under Visible-Light Irradiation; *Surfaces and Interfaces* 40(2023)103078.
190. **Anees A Ansari**, MA Majeed Khan, M Alam; Perovskite Nanoparticles and Their Use in Efficient Electro-Catalytic Oxidation of Tadalafil; *Journal of Electronic Materials* 52(2023)6864-6873.
189. Rituraj Dubey, **Anees A Ansari**, Laxman Singh; Bioorthogonal "Click Chemistry" synthesis of fluorescent derivative of Ethinyl estradiol for probing estrogen receptor on Poly (dimethylsiloxane)-Based microarrays; *Journal of Photochemistry and Photobiology A: Chemistry* 443(2023) 114861
188. **Anees A Ansari**, M. A. Majeed Khan; Tb³⁺-doped lanthanide phosphate nanoparticles: Crystal structure, Raman, optical and luminescent properties; *Bulletin of Materials Science* 46(2023)207
187. **Anees A Ansari**, M. A. Majeed Khan, Sadia Ameen; Impact of luminescent-ion doping on the crystallographic and photo-physical properties of the CaMoO₄ nanoparticles, *Photochemical & Photobiological Sciences* 22(2023)2357-2371.
186. **Anees A. Ansari**, M. A. Majeed Khan, B. P. Singh, A.K. Parchur; Upconversion nanoparticles: Influence of the host lattices on crystallographic and luminescent properties; *J. Mater Sc: Mater Electron* 34(2023)1625.
185. **Anees A. Ansari**, M. A. Majeed Khan, B.P. Singh, A.K. Parchur; Influence the host lattices on photoluminescent properties of the Ce/Tb doped CaF₂, NaYF₄, and NaGdF₄ nanoparticles; *Journal of Fluorine Chemistry* 270(2023)110174.
184. **Anees A Ansari**, MA Majeed Khan, YF₃:Tb, LaF₃:Ce/Tb, and GdF₃:Tb nanoparticles: A comparison of the crystallographic and photoluminescent properties; *Journal of The Chinese Chemical Society* 70(2023)1521-1531.
183. **Anees A Ansari**, MA Majeed Khan, Synthesis of the aqueous soluble mesoporous silica functionalized luminescent La(OH)₃:Pr core-shell nanospheres; *Chemical Papers* 77(2023)5293-5303.
182. M.A. Majeed Khan, **Anees A. Ansari**, Wasi Khan, M. Ahamed, Jahangeer Ahmed, Avshish Kumar Synthesis of nanosized MnO₂ decorated SWCNTs and their

photocatalytic improved activity as well as enhanced electrode performance; Optics and Laser Technology 164 (2023) 109518

181. **Anees A Ansari**, MA Majeed Khan, M Alam; Perovskite nanoparticles as a sensing platform for electrochemical glucose detection; Journal of Materials Science: Materials in Electronics; **34** (2023) 991.
180. **Anees A Ansari**, MA Majeed Khan, Eu³⁺-ion doped LnF₃ NPs: Comparative study of the crystallographic, and photophysical properties; Journal of Photochemistry and Photobiology A: Chemistry 442 (2023) 114799.
179. Eun-Bi Kim, M Shaheer Akhtar, Khalid Alotaibi, **Anees A Ansari**, Sadia Ameen; Thiadiazole based π -conjugated small molecule as donor material for highly stable and efficient bulk heterojunction organic solar cells; Organic Electronics 120(2023) 106832.
178. Laxman Singh, L. Dhavala, R. Bhimireddi, **Anees A Ansari**, S. Kumar, V. Srivastava, RN Rai, Quyet Van Le, Youngil Lee; Low-cost flame synthesized La_{2/3}Cu₃Ti₄O₁₂ electro-ceramic and extensive investigation on electrical, impedance, modulus, and optical properties, Ceramic International, 49(2023) 21795-21803
177. **Anees A Ansari**, MA Majeed Khan, Citric acid assisted synthesis of luminescent CeF₃ and CeF₃: Tb³⁺ nanoparticles: luminescent & optical properties, Ceramic International, 49(2023) 41167-41174
176. Kumara R. Kandula, Tukaram Shet, M. Nuthalapati, K Lokeswara Rao, **Anees A Ansari**, Khalid M Alotaibi, Abdullah A Alotaibi, A Chitti Babu, N Narasimha Rao, Sudharshan Vadnala, Jakkula Shankar, P Raghava Rao, Rajasekhar Bhimireddi, Structural phase modulation in Lanthanum and Tin co-substituted Pb(Zr, Ti)O₃ ceramics and its energy and pyro-energy storage properties, Physica Status Solidi (a) **220**(2023) 2200421.

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175. Mohd Shkir, Sivalingam Muthu Mariappan, Aslam Khan, Elangovan Vinoth, Hamed Algarni, Ahmed Mohamed El-Toni, **Anees A Ansari**, Ali Aldalbahi, Ravindra Kumar Gupta, Salem AlFaify; Tuning the Frölich interactions in bismuth modified lead sulfide quantum dots to minimize the excitonic carrier energy dissipation; International Journal of Energy Research 46(2022) 11914-11924
174. **Anees A. Ansari**, M.R. Muthumareeswaran, Ruichan Lv; Coordination chemistry of the host matrices with dopant luminescent Ln³⁺ ion and their impact on luminescent properties; Coordination Chemistry Reviews 466(2022) 214584.
173. M.Z. Meng, Rui Zhang, X.M. Fa, J.G. Yang, Zhenlong Cheng, **Anees A. Ansari**, Jun Ou, C. Wurth, U. Resch-Genger; Effect of Ca²⁺ doping on the upconversion luminescence properties of NaYF₄:Yb³⁺/Tm³⁺ nanoparticles and its application to fluorescence temperature characteristics; CrystEngComm 24(2022)4887-4898.
172. **Anees A Ansari**, Joselito P. Labis, Aslam Khan, Facile synthesized NaGdF₄:Yb, Er peanut-shaped, highly biocompatible, colloidal upconversion nanospheres; Luminescence 37(2022)1048-1056.
171. **Anees A Ansari**, K.M Aldajani, A.N. AlHazaa, H.A. Albrithen, Recent progress of fluorescent materials for fingerprints detection in forensic science and anti-counterfeiting, Coordination Chemistry Reviews 462(2022) 214523.
170. M.Z. Meng, Rui Zhang, X.M. Fa, J.G. Yang, Zhenlong Cheng, **Anees A. Ansari**, Jun Ou, C. Wurth, U. Resch-Genger; Preparation of core-shell structured NaYF₄:Yb/

Tm@NaYF₄:Yb/Er nanoparticles with high sensitivity, low resolution and good reliability and application of their fluorescence temperature properties; **CrystEngComm** 24(2022)1752-1763.

169. R. Bhimireddi, S.P. Prashanth Sadhu, L. Dhavala, T. Shet, S. Kundu, **Anees A. Ansari**; M. A. Manthrammel, S. AlFaify; Concomitant structural and ferroelectric properties of Sr₂Bi₄Ti₅O₁₈ ceramics sintered with (K_{0.41}Na_{0.53}Li_{0.06})(Nb_{0.89}Sb_{0.06}Ta_{0.05})O₃ perovskite; Journal of Solid State Chemistry 309 (2022) 122959.

168. **Anees A Ansari**, Manawwer Alam, Perovskite nanoparticles as an electrochemical sensing platform for detection of warfarin, Biosensors 12(2022)92.

167. **Anees A. Ansari**, A.K. Parchur, Guanying Chen, Surface modified lanthanide upconversion nanoparticles for drug delivery, cellular uptake mechanism, and current challenges in NIR-driven therapies, Coordination Chemistry Reviews 457 (2021) 214423.

166. **Anees A Ansari**, Manawwer Alam, Electrochemical performance of the Mn-doped CeO₂: nanoparticles for sensitive electrocatalysts the urea concentrations; Journal of Australian Ceramic Society 58(2022)217-225.

165. **Anees A Ansari**, Bansi D. Malhotra, Current progress in organic–inorganic hetero-nano-interfaces based electrochemical biosensors for healthcare monitoring, Coordination Chemistry Review 452(2022) 214282.

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164. **Anees A Ansari**, Joselito P. Labis, Aslam Khan, Biocompatible NaYF₄:Yb,Er upconversion nanoparticles: Colloidal stability and optical properties, Journal Saudi Chemical Society 25(2021)101390.

163. T Alshahrani, Mohd Shkir, Aslam Khan, A.M. El-Toni, **Anees A Ansari**, MA Shar, H. Ghaithan, S AlFaify, Tien D. Nguyen, V.R. Minnam Reddy; A remarkable effect of substrate temperature on novel Al/Y₂O₃/n-Si heterojunction diodes performance fabricated by facile jet nebulizer spray pyrolysis for optoelectronic applications; Chinese Journal of Physics; 75(2022)14-27.

162. **Anees A Ansari**, M. Sillanpaa, Advancement in upconversion nanoparticles based NIR-driven photocatalyst, Renewable and Sustainable Energy Review, 151(2021)111631.

161. **Anees A. Ansari**, M Alam, Nickel-ion substituted ceria nanoparticles based electrochemical sensor for sensitive detection of thiourea; Journal of Materials Science: Materials in Electronics 32(2021)23266-23274.

160. **Anees A Ansari**, A.K. Parchur, J.P. Labis, M. A. Shar; Physicochemical characterization of highly biocompatible, colloidal LaF₃:Yb/Er upconversion nanoparticles; Photochemical & Photobiological Sciences 20(2021)1195-1208.

159. **Anees A. Ansari**, M Alam, Sensitive electrochemical detection of 4-nitrophenol through Copper doped CeO₂ nanoparticles; Journal of Electroceramics 47(2021)14-27

158. KV Gunavathy, AMS Arulanantham, Aslam Khan, CSA Raj, Ahmed Mohamed El-Toni, Muhammad Ali Shar, **Anees Ansari**, S AlFaify; Optimization of the Optoelectronic properties of Copper Zinc Tin Sulfide Thin Films for Solar Photovoltaic Applications; Physica Scripta 96(2021)125834.

157. Rajasekhar Bhimireddi, P.W. Jaschin, Kavita Mishra, **Anees A. Ansari**; Luminescence properties of CaMoO₄ nanoparticles embedded borate composite glass; Journal of Solid State Chemistry, 302(2021)122400.

156. K.D.A. Kumar, P. Mele, S. Golovynskyi, Aslam Khan, A.M. El-Toni, **Anees A Ansari**, R.K. Gupta, H. Ghaithan, S AlFaify, P. Murahari; Insight into Al doping effect on

photodetector performance of CdS and CdS: Mg films prepared by self-controlled nebulizer spray technique; Journal of Alloys Compounds 892(2022)160801.

155. R. Balakarthikeyan, A. Santhanam, A. Khan, A. M. El-Toni, **Anees A Ansari**, A. Imran, M. Shkir, S AlFaify; Performance analysis of SnS thin films fabricated using thermal evaporation technique for photodetector applications; Optic 244(2021)167460.

154. M. Shkir, B. Palanivel, K.V. Chandekar, A.Khan, A.M. El-Toni, **Anees A. Ansari**, R. A. Zargar, M.A. Sayed, S. AlFaify; Microwave-assisted synthesis of Cu doped PbS nanostructures with enhanced dielectric and electrical properties for optoelectronic applications; Materials Science & Engineering B 271(2021) 115268

153. **Anees A. Ansari**, A.K. Parchur, M.K. Nazeeruddin, M.M. Tavakoli, Luminescent lanthanide nanocomposites in thermometry: chemistry of dopant ions and host matrices; Coordination Chemistry Reviews 444(2021)214040.

152. **Anees A Ansari**, A.K. Parchur, J.P. Labis, M. A. Shar, A. Khan; Highly hydrophilic CaF₂:Yb/Er upconversion nanoparticles: Structural, morphological, and optical properties; Journal of Fluorine Chemistry 247(2021) 109820.

151. M Boomashri, P Perumal, A.Khan, A.M. El-Toni, **Anees A Ansari**, R.K. Gupta, P. Murahari, K.D.A. Kumar; Zn influence on nanostructured tin oxide (SnO₂) films as ammonia sensor at room temperature; Surfaces and Interfaces 25(2021) 101195.

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